

YF8U13-050UA1XLEAX

Sensor-actuator cables

CONNECTORS AND CABLES





Ordering information

Туре	part no.
YF8U13-050UA1XLEAX	2094788

Other models and accessories → www.sick.com/Sensor-actuator_cables



Detailed technical data

Technical specifications

Connection type head A	Female connector, M8, 3-pin, straight, A-coded
Connection type head B	Flying leads
Locking plug connector	Screw connection
Connector material	TPU
Connector color	Black
Locking nut material	Zinc die-cast, nickel-plated
Seal material	FKM
Tightening torque	0.4 Nm
Width across flats	9
Cable	5 m, 3-wire, PUR, halogen-free
Jacket material	PUR, halogen-free
Jacket color	Black
Cable diameter	4.1 mm
Conductor cross section	0.25 mm ²
Shielding	Unshielded
Bending radius	
Flexible use	> 10 x cable diameter
Stationary position	> 5 x cable diameter
Drag chain operation	> 10 x cable diameter
Bending cycles	10,000,000
Nominal voltage, cable	300 V AC
Test voltage, cable	2,500 V AC
Reference voltage	
	50 V AC
	60 V DC
Rated impulse voltage	1.5 kV
Current loading	4 A
Traversing speed	3 m/s

Travelling distance 10 m/s² Signal type Sensor/actuator cable Torsion force 180°/1 m Torsion cycles 2,000,000 Cycles per minutes 35 Application Lincontaminated zones Zones with oils and lubricants Robot Porag chain operation Enclosure rating 1965 / IP66K / IP67 Operating temperature 25°C+80°C Stationary position -40°C+80°C Obrag chain operation -25°C+80°C Orag miniation rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, IEC 60332-2-2		
Signal type Sensor/actuator cable Torsion force 180° / 1 m Torsion cycles 2,000,000 Cycles per minutes 35 Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use Stationary position Para chain operation -25 °C +80 °C Operating temperature -40 °C +80 °C -25 °C +80 °C Ocntamination rating 1840 °C -25 °C +85 °C Contamination resistance 100 MΩ MΩ Overvoltage category III Specific insulation resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Travelling distance	10 m
Torsion force 180° / 1 m 2,000,000 Cycles per minutes 35 Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation E335179 Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation Head Contamination rating Insulation resistance Overvoltage category Thermal resistance, piping 180° / 1 m 2,000,000 Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation E335179 Insulation resistance 100 MΩ Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Acceleration	≤ 10 m/s²
Torsion cycles Cycles per minutes Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation Drag chain operation Plexible use Stationary position Abead Contamination rating Insulation resistance Overvoltage category Thermal resistance, piping 100 MΩ Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation E335179 Incontaminated Zones Zones with oils and lubricants Robot Drag chain operation E335179 IP65 / IP66K / IP67 Oct +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C Contamination rating Insulation resistance Insulat	Signal type	Sensor/actuator cable
Cycles per minutes Application UL File No. E335179 Enclosure rating Operating temperature Flexible use -25 °C +80 °C -40 °C +80 °C Drag chain operation Flexible use -25 °C +80 °C -25 °C +80 °C Contamination rating Insulation resistance Overvoltage category Specific insulation resistance Thermal resistance, piping JUL File No. E335179 Incontaminated zones Zones with oils and lubricants Robot Drag chain operation P65 / IP66K / IP67 Co +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C Contamination rating Insulation resistance 100 MΩ Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Torsion force	180°/1m
Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation Enclosure rating Departing temperature Flexible use Stationary position Drag chain operation Plead -25 °C +80 °C -40 °C +80 °C -25 °C +80 °C Contamination rating Insulation resistance Downwoltage category Ill Specific insulation resistance Temperature Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation -25 °C +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +85 °C Contamination rating 3 Insulation resistance 100 MΩ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Torsion cycles	2,000,000
UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use Stationary position Drag chain operation -40 °C +80 °C At a contamination rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Cycles per minutes	35
Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use -25 °C +80 °C Stationary position -40 °C +80 °C Drag chain operation -25 °C +80 °C Head -25 °C +85 °C Contamination rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Application	Zones with oils and lubricants Robot
Operating temperature Flexible use	UL File No.	E335179
Flexible use Stationary position $-25 ^{\circ}\text{C} \dots +80 ^{\circ}\text{C}$ Orag chain operation $-25 ^{\circ}\text{C} \dots +80 ^{\circ}\text{C}$ Head $-25 ^{\circ}\text{C} \dots +80 ^{\circ}\text{C}$ Contamination rating 3 Insulation resistance 100 M Ω Overvoltage category III Specific insulation resistance 30 m Ω Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Enclosure rating	IP65 / IP66K / IP67
Stationary position $-40\ ^{\circ}\text{C} \dots +80\ ^{\circ}\text{C}$ Drag chain operation $-25\ ^{\circ}\text{C} \dots +80\ ^{\circ}\text{C}$ Head $-25\ ^{\circ}\text{C} \dots +85\ ^{\circ}\text{C}$ Contamination rating 3 Insulation resistance $100\ \text{M}\Omega$ Overvoltage category III Specific insulation resistance $30\ \text{m}\Omega$ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Operating temperature	
Drag chain operation -25 °C +80 °CHead -25 °C +85 °CContamination rating3Insulation resistance $100 \text{ M}\Omega$ Overvoltage categoryIIISpecific insulation resistance $30 \text{ m}\Omega$ Thermal resistance, pipingFlame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Flexible use	-25 °C +80 °C
Head -25 °C +85 °C Contamination rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance 30 mΩ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Stationary position	-40 °C +80 °C
	Drag chain operation	-25 °C +80 °C
Insulation resistance $100 \text{ M}\Omega$ Overvoltage category III Specific insulation resistance $30 \text{ m}\Omega$ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Head	-25 °C +85 °C
Overvoltage category III Specific insulation resistance $30 \text{ m}\Omega$ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Contamination rating	3
Specific insulation resistance 30 mΩ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Insulation resistance	100 ΜΩ
Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Overvoltage category	III
	Specific insulation resistance	30 mΩ
	Thermal resistance, piping	

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
China RoHS	✓
cULus certificate	✓

Classifications

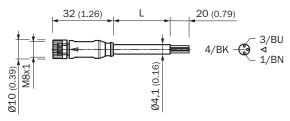
ECLASS 5.0	19030312
ECLASS 5.1.4	19030312
ECLASS 6.0	27060304
ECLASS 6.2	27060304
ECLASS 7.0	27060304
ECLASS 8.0	27060304
ECLASS 8.1	27060304
ECLASS 9.0	27060304
ECLASS 10.0	27060304
ECLASS 11.0	27060304
ECLASS 12.0	27060304
ETIM 5.0	EC000830
ETIM 6.0	EC000830
ETIM 7.0	EC003249

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ETIM 8.0	EC003249
UNSPSC 16.0901	26121604

Dimensional drawing



Dimensions in mm (inch)

Recommended accessories

Other models and accessories → www.sick.com/Sensor-actuator_cables

	Brief description	Туре	part no.		
connectors an	connectors and cables				
	 Connection type head A: Male connector, M8, 3-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	STE-0803-G	6037322		
	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	DOS-0803-G	7902077		
Mounting systems					
1	 Description: M8 mounting key set for SW9 with calibrated torque 0.4 Nm Packing unit: 1 piece Suitable for: M8 Standard 	TOOL-TWO4M08AF09	5337207		

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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

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